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EUROPEAN PATENT APPLICATION

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- (54) High-frequency, high-leakage-reactance transformer.
- (57) A high-frequency, high-leakage-reactance transformer has a section of low-permeability magnetic material disposed between planar primary and secondary windings. The low-permeability section provides a controlled flux path for the leakage flux between the primary and secondary windings. Excessive eddy currents are thus prevented from flowing in the planar windings, and high-efficiency operation is achieved. The high-leakage-reactance transformer can function both as a transformer and an inductor, thereby reducing the size of, for example, a resonant power supply or a discharge lamp ballast.

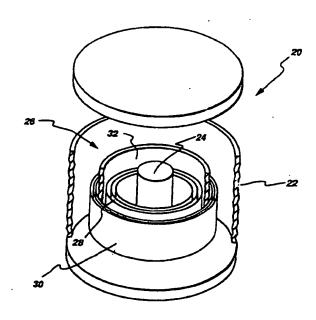


Fig. 3



EUROPEAN SEARCH REPORT

Application Number

EP 91 30 9923

Category	Citation of document with indi		Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)	
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	US-A-4 613 841 (ROBE	RIS)	1,2	H01F27/34	
	* column 7, line 13	- line 21; figures	}	H01F27/38	
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, A	US-A-4 943 793 (NGO	FT AL)	1-4,6-8		
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